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3	Method and apparatus for relational linking based upon customer activities	705/26	
4	System and method for payer (buyer) defined electronic invoice exchange	705/34	
5	Method and apparatus for exchanging data between a primary computer system and an external computer system to ensure transactional reconciliation between the systems	379/93.12	
6	System and method for auctioning goods seized or recovered by local, county, state, or federal law enforcement agencies	705/37	
7	Aggregation and dissemination of hardware and software inventory data	707/102	
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1 [A framework for implementing pluggable type systems](#)



Chris Andreae, James Noble, Shane Markstrum, Todd Millstein

October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN confer oriented programming systems, languages, and applications OOPSLA '06**, Vo

Publisher: ACM Press

Full text available: pdf(294.23 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

Pluggable types have been proposed to support multiple type systems in the same programmin designed and implemented JavaCOP, a program constraint system for implementing practical pl Java. JavaCOP enforces user-defined typing constraints written in a declarative and expressive validated our design by (re)implementing a range of type systems and program checkers. By u: system to implement p ...

Keywords: JavaCOP, pluggable type systems

2 [On objects and events](#)



Patrick Th. Eugster, Rachid Guerraoui, Christian Heide Damm

October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on programming, systems, languages, and applications OOPSLA '01**, Volume 36 Iss

Publisher: ACM Press

Full text available: pdf(308.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

This paper presents linguistic primitives for publish/subscribe programming using events and ob primitives into a strongly typed object-oriented language through four mechanisms: (1) serializa subtyping, (3)closures, and (4) deferred code evaluation. We illustrate our primitives through J: have overcome its respective lacks. A precompiler transforms statements based on our publish/ calls to specifically generated ...

3 [Compilation: Reflective program generation with patterns](#)



Manuel Fähndrich, Michael Carbin, James R. Larus

October 2006 **Proceedings of the 5th international conference on Generative programming engineering GPCE '06**

Publisher: ACM Press

Full text available: pdf(200.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Runtime reflection facilities, as present in Java and .NET, are powerful mechanisms for inspecting metadata, as well as generating new code and metadata on the fly. Such power does come at a runtime reflection support in Java and .NET imposes a cost on all programs, whether they use it by the necessity of keeping all metadata around and the inability to optimize code because of future changes. A second---often overlooked ...

Keywords: generative programming, patterns, reflection, templates

4 PLI workshops: Template meta-programming for Haskell



Tim Sheard, Simon Peyton Jones

December 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 12

Publisher: ACM Press

Full text available: [pdf\(244.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [info](#)

We propose a new extension to the purely functional programming language Haskell that supports *programmatic* programming. The purpose of the system is to support the *algorithmic* construction of programs; the ability to generate code at compile time allows the programmer to implement such features as | macro-like expansion, user directed optimization (such as inlining), and the generation of support functions from existing ...

Keywords: Meta programming, templates

5 Template meta-programming for Haskell



Tim Sheard, Simon Peyton Jones

October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Haskell Haskell '02**

Publisher: ACM Press

Full text available: [pdf\(169.20 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [info](#)

We propose a new extension to the purely functional programming language Haskell that supports *programmatic* programming. The purpose of the system is to support the *algorithmic* construction of programs; the ability to generate code at compile time allows the programmer to implement such features as | macro-like expansion, user directed optimization (such as inlining), and the generation of support functions from existing ...

Keywords: meta programming, templates

6 Modelling: Empirical privilege profiling



Carla Marceau, Rob Joyce

September 2005 **Proceedings of the 2005 workshop on New security paradigms NSPW '05**

Publisher: ACM Press

Full text available: [pdf\(2.50 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The well-known Principle of Least Privilege states that a program should run with the minimal privileges to get the job done, and no more. However, application of the principle has been left to software developers, installation procedures, and system administrators with few tools to assist them. How much privilege does a program need? How do you know if you write a program that uses too much privilege or install Empirical privilege p ...

7 Generating the user interface: GUI generation from annotated source code



Josef Jelinek, Pavel Slavik

November 2004 **Proceedings of the 3rd annual conference on Task models and diagrams TMD**

Publisher: ACM Press

Full text available: [pdf\(153.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Creating user interfaces is a common task in application development. It can become time and same application is to be run on more platforms with different restrictions and requirements. To cost and time the user interface can be defined on an abstract level in the form of a task model maintaining the task model can complicate the development especially in its early stages when built. We present a way ...

Keywords: automatic GUI generation, visual programming

8 Dynamic applications from the ground up



Don Stewart, Manuel M. T. Chakravarty

September 2005 **Proceedings of the 2005 ACM SIGPLAN workshop on Haskell Haskell '05**

Publisher: ACM Press

Full text available: [pdf\(188.51 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

Some Lisp programs such as Emacs, but also the Linux kernel (when fully modularised) are *mo*: from a small static core, the significant functionality is dynamically loaded. In this paper, we ex applications in Haskell where the static core is minimal and code is hot swappable. We demonst architecture by two applications: Yi, an extensible editor, and Lambdabot, a plugin-based IRC r approach. i ...

Keywords: dynamic applications, dynamic update, extension languages, functional programmi

9 Compilation: Debugging C++ template metaprograms



Zoltán Porkoláb, József Mihalicza, Ádám Sipos

October 2006 **Proceedings of the 5th international conference on Generative programming engineering GPCE '06**

Publisher: ACM Press

Full text available: [pdf\(163.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Template metaprogramming is an emerging new direction in C++ programming for executing a time. Despite all of its already proven benefits and numerous successful applications, it is yet to projects. One reason is the lack of professional software tools supporting the development of te strong analogue exists between traditional runtime programs and compile-time metaprograms. the possibility for creati ...

Keywords: C++, debugging, template metaprogramming

10 Visualization frameworks and empirical evaluation: Online-configuration of software visuali



Thomas Panas, Rüdiger Lincke, Welf Löwe

May 2005 **Proceedings of the 2005 ACM symposium on Software visualization SoftVis '**

Publisher: ACM Press

Full text available: [pdf\(887.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

A software visualization is defined by an abstract software model, views on this model and a m creating new visualizations, we online-configure views and their mappings instead of hand-codi we introduce an architecture allowing such an online configuration and, as a proof of concept, a this architecture. In several examples, we demonstrate generality and flexibility of our approach

11 Social awareness and availability: The AWARE architecture: supporting context-mediated mobile cooperation



Jakob E. Bardram, Thomas R. Hansen

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperat**

Publisher: ACM Press

Full text available:  [pdf\(287.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

Maintaining social awareness of the working context of fellow co-workers is crucial to successful non co-located workers, however, this social awareness is hard to maintain. In this paper we pr
<i>Context-Mediated Social Awareness</i> to denote how context-aware computing can be us
awareness. We illustrate the concept in a case study of mobile collaboration in a hospital and pr
which is designed ...

Keywords: awarephone, context-aware computing, mobile computing, pervasive healthcare, s
ubiquitous computing

12 Constraints: On context in authorization policy



Patrick McDaniel

June 2003

Proceedings of the eighth ACM symposium on Access control models and tec

Publisher: ACM Press

Full text available:  [pdf\(316.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

Authorization policy infrastructures are evolving with the complex environments that they supp
requirements and technologies supporting context are not yet well understood. Often implemen
or predefined attributes, context is used to more precisely control when and how policy is enfor
context requirements and services in authorization policy. The properties and security requirem
are classified. A key obs ...

Keywords: authorization, context, distributed systems, policy, policy-oriented programming, s

13 Language constructs for context-oriented programming: an overview of ContextL



Pascal Costanza, Robert Hirschfeld

October 2005

Proceedings of the 2005 conference on Dynamic languages symposium DLS

Publisher: ACM Press

Full text available:  [pdf\(219.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

ContextL is an extension to the Common Lisp Object System that allows for Context-oriented Pr
means to associate partial class and method definitions with *layers* and to activate and deactiva
control flow of a running program. When a layer is activated, the partial definitions become part
layer is deactivated. This has the effect that the behavior of a program can be modified accordi
use without th ...

Keywords: Context-oriented Programming, dynamic scope, layers, views

14 Model transformation (MT 2006): Advanced model transformation language constructs in t




András Balogh, Dániel Varró

April 2006

Proceedings of the 2006 ACM symposium on Applied computing SAC '06

Publisher: ACM Press

Full text available:  [pdf\(174.11 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

We present the model transformation language of the VIATRA2 framework, which provides a ru
transformation language for manipulating graph models by combining graph transformation and
into a single specification paradigm. This language offers advanced constructs for querying (e.g
patterns) and manipulating models (e.g. generic and meta transformation rules) in unidirection
frequently used in formal model analysis ...

15 Interesting program representations: Growing squares: animated visualization of causal re

Niklas Elmqvist, Philippas Tsigas

June 2003

Proceedings of the 2003 ACM symposium on Software visualization SoftVis '03**Publisher:** ACM PressFull text available: [pdf\(499.33 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We present a novel information visualization technique for the graphical representation of causal relations on the metaphor of color pools spreading over time on a piece of paper. Messages between processes affect the colors of their respective pool, making it possible to quickly see the influences each process has on the others. This technique, called Growing Squares, has been evaluated in a comparative user study and shown to be more efficient than previous techniques.

Keywords: causal relations, information visualization, interactive animation**16 Automated debugging in Eclipse: (at the touch of not even a button)**

Philipp Bouillon, Martin Burger, Andreas Zeller

October 2003 **Proceedings of the 2003 OOPSLA workshop on eclipse technology eXchange****Publisher:** ACM PressFull text available: [pdf\(205.74 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Recent advances in debugging allow for automatic isolation of failure causes such as failure-induced changes. So far, these advances required a significant infrastructure, notably program analysis, automated construction. The ECLIPSE environment provides such an infrastructure in an integrated fashion. We show how developers and users of automated debugging tools can greatly benefit from this infrastructure.

17 Economics of test automation: test cost and effectiveness: Advanced unit testing: how to set up a framework

Cyrille Artho, Armin Biere

May 2006 **Proceedings of the 2006 international workshop on Automation of software testing****Publisher:** ACM PressFull text available: [pdf\(200.19 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Unit testing is a scalable and effective way to uncover software faults. In the JNuke project, automated unit testing combined with coverage measurement ensured high code quality throughout the project. By using the JNuke environment, functionality was extended beyond what is commonly available by unit test frameworks. Memory leak detection was implemented through wrapping. Automated support for log files maintains the internal state of objects, which is often lost in traditional unit testing.

Keywords: system testing, test framework, unit testing**18 Papers from MC²R open call: Practical experience with adaptive service access**

Umar Saif, Justin Mazzola Paluska, Vijay Praful Chauhan

January 2005 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 9 Issue 1**Publisher:** ACM PressFull text available: [pdf\(327.70 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

The dynamically changing nature of the emerging networked environments warrants a computational model where resources are dynamically discovered and opportunistically utilized to maintain continuity of service. The design and implementation of Lightweight Adaptive Network Sockets (LANS) for accessing services in a dynamically changing networked environment. A LANS socket takes a high-level description of the environment and opportunistically connects to the best provider of the service.

19 Polish parsers, step by step

R. John M. Hughes, S. Doaitse Swierstra

August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional Programming**

Functional programming ICFP '03, Volume 38 Issue 9

Publisher: ACM Press

Full text available:  pdf(186.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

We present the derivation of a space efficient parser combinator library: the constructed parser unnecessary references to the input, produce online results and efficiently handle ambiguous gr techniques can be applied in many contexts where traditionally backtracking is used. We present keeping track of the progress of the search process, and one for representing the final result in data types are combined into a ...

Keywords: GLR parsing, Polish representation, ambiguous grammars, breadth-first search, onl combinators


20 VisualGraph: a graph class designed for both undergraduate students and educators



Jeff Lucas, Thomas L. Naps, Guido Rossling

January 2003 **ACM SIGCSE Bulletin**, **Proceedings of the 34th SIGCSE technical symposium education SIGCSE '03**, Volume 35 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inc](#)

Graphs and graph algorithms play an important role in undergraduate data structures and algor they often also represent the first case where both the correctness and the underlying concepts evident. Both students and educators can therefore benefit from a simple yet expressive tool fo and then conveniently visualizing them. We present such a tool, derived from a set of instructio give an example applic ...

Keywords: CS 1, animation, graphs, pedagogy, visualization

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21 [Adaptive techniques: Program-level adaptive memory management](#)



Chengliang Zhang, Kirk Kelsey, Xipeng Shen, Chen Ding, Matthew Hertz, Mitsunori Ogiwara

June 2006

Proceedings of the 2006 international symposium on Memory management I

Publisher: ACM Press

Full text available: [pdf\(212.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most application's performance is impacted by the amount of available memory. In a traditional a fixed working set size, increasing memory has a beneficial effect up until the application's work presence of garbage collection this relationship becomes more complex. While increasing the size of the heap reduces the frequency of collections, collecting a heap with memory paged to the backing store is expensive. We first demonstrate the problem and then propose a solution.

Keywords: adaptive, garbage collection, heap sizing, paging, program-level

22 [Hybrid transactional memory](#)



Peter Damron, Alexandra Fedorova, Yossi Lev

October 2006

ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , ACM SIGARCH Architecture News , Proceedings of the 12th international conference on Architectural support for programming languages and operating systems ASPLOS-XII, Volume 41 , 40

Publisher: ACM Press

Full text available: [pdf\(195.89 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Transactional memory (TM) promises to substantially reduce the difficulty of writing correct, efficient concurrent programs. But "bounded" and "best-effort" hardware TM proposals impose unreasonable constraints on programmers, while more flexible software TM implementations are considered too slow. Proposing "unbounded" transactions in hardware entail significantly higher complexity and risk than best-effort. We introduce *Hybrid Transactional Memory* (HyTM).

Keywords: transactional memory

23 [System papers: interface generation and annotation tools: A visual interface for a multimodal annotation tool: design issues and implementation solutions](#)



Mykola Kolodnytsky, Niels Ole Bernsen, Laila Dybkjær

May 2004

Proceedings of the working conference on Advanced visual interfaces AVI '04

Publisher: ACM Press

Full text available:  pdf(113.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses the user interface design for the NITE WorkBench for Windows (NWB) which enables analysis of full natural interactive communicative behaviour between humans and between machines. The system enables users to perceive voice and video data and control its presentation when processing cross-level and cross-modality annotation, information visualisation for data coding and analysis, retrieval, and data exploitation.

Keywords: data annotation tools, data visualisation, interface design

24 [Tools: A graph-based approach to modeling and detecting composition conflicts related to](#)



Wilke Havinga, Istvan Nagy, Lodewijk Bergmans, Mehmet Aksit

March 2007 **Proceedings of the 6th international conference on Aspect-oriented software**
'07

Publisher: ACM Press

Full text available:  pdf(299.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this paper is to model and detect composition conflicts related to introductions. With this we identify several categories of composition conflicts. To analyze the causes of these conflicts pre-define the structure of programs as graphs. Next, we model introductions as graph transformation rule rules to describe when composition conflicts related to introductions occur. We built a prototype which visualizes the occurrence ...

Keywords: AOP, aspect composition, aspect interactions, aspect interference, conflict detection, graph rewrite systems, introductions

25 [Transparent proxies for java futures](#)



Polyvios Pratikakis, Jaime Spacco, Michael Hicks

October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 45

Publisher: ACM Press

Full text available:  pdf(351.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A *<i>proxy</i>* object is a surrogate or placeholder that controls access to another target object. It is used to support distributed programming, lazy or parallel evaluation, access control, and other features. Behavioral reflection. However, *<i>wrapper proxies</i>* (like *<i>futures</i>* or *<i>suspension</i>* of computed results) can require significant code changes to be used in statically-typed languages. Generally c ...

Keywords: Java, future, proxy, type inference, type qualifier


26 [UML-based multiprocessor SoC design framework](#)



Tero Kangas, Petri Kukkala, Heikki Orsila, Erno Salminen, Marko Hännikäinen, Timo D. Hämäläinen, Kimmo Kuusilinna

May 2006 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available:  pdf(3.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a complete design flow for multiprocessor systems-on-chips (SoCs) covering the design from system-level modeling to FPGA prototyping. The design of complex heterogeneous system involves the abstraction level and providing several system-level design automation tools. The system is a design environment following a new UML profile that specifies the practices for orthogonal application architecture modeling. The design flow tools are gov ...

Keywords: UML 2.0, architecture exploration, design flow

27 Posters: Meta: a universal meta-language for augmenting and unifying language families, for object-oriented programming languages



Wade Holst

October 2005 **Companion to the 20th annual ACM SIGPLAN conference on Object-oriented systems, languages, and applications OOPSLA '05**

Publisher: ACM Press

Full text available: pdf(49.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Meta: a collection of meta-languages that augment/unify language-families, an advanced programming language interoperability framework, an infrastructure for reflection over source documents, and XML. XML provides an extensible mechanism for defining syntax, while Meta provides an extensible defining syntax and semantics.

Keywords: language design, language interoperability, meta-languages, meta-programming, compiler

28 Program visualization: Exploiting UML dynamic object modeling for the visualization of C++



Brian A. Malloy, James F. Power

May 2005 **Proceedings of the 2005 ACM symposium on Software visualization SoftVis '05**

Publisher: ACM Press

Full text available: pdf(640.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper we present an approach to modeling and visualizing the dynamic interactions among an application. We exploit UML diagrams to expressively visualize both the static and dynamic properties of an application. We make use of a class diagram and call graph of the application to select the parts to be modeled, thereby reducing the number of objects and methods under consideration with a goal of reducing the cognitive burden on the user of our system ...

Keywords: aspect oriented programming, program comprehension, sequence diagram, unified modeling language

29 Manipulating OOo documents with Ruby

James Britt

March 2004 **Linux Journal**, Volume 2004 Issue 119

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(24.17 KB)

Additional Information: [full citation](#), [abstract](#)

XML and Ruby let your scripts and your office suite handle the same files.

30 Plug and Play speech understanding

Manny Rayner, Ian Lewin, Genevieve Gorrell, Johan Boye

September 2001 **Proceedings of the Second SIGdial Workshop on Discourse and Dialogue -**

Publisher: Association for Computational Linguistics



Full text available: pdf(236.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Plug and Play is an increasingly important concept in system and network architectures. We introduce a spoken language dialogue system architecture which supports Plug and Playable networks of objects. Each device in the network carries the linguistic and dialogue management information which is uploaded dynamically to the relevant language processing components in the spoken language system. The current state of our plug and play dialog system is ...

31 The garbage collection advantage: improving program locality

Xianglong Huang, Stephen M. Blackburn, Kathryn S. McKinley, J. Eliot B. Moss, Zhenlin Wang, Perry

-  October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, v. 49
Publisher: ACM Press
 Full text available:  pdf(277.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As improvements in processor speed continue to outpace improvements in cache and memory, garbage collection increasingly degrades performance. Because copying garbage collectors move objects, they have to improve locality. However, no static copying order is guaranteed to match program traversal or introduces *online object reordering* (OOR) which includes a new dynamic, online class analysis that detects program traversal patterns and exploits them ...

Keywords: adaptive, compiler-assisted, generational, locality



32 Immutability specification and its applications

-  Igor Pechtchanski, Vivek Sarkar
 November 2002 **Proceedings of the 2002 joint ACM-ISCOPE conference on Java Grande JGI**
Publisher: ACM Press
 Full text available:  pdf(203.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A location is said to be *immutable* if its value and the values of selected locations reachable from it remain unchanged during a specified time interval. We introduce a framework for *immunity*: we discuss its application to *code optimization*. Compared to a *final* declaration, an immunity as a framework can express a richer set of immunity properties along three dimensions --- *lifetime*, *scope*, and *access*.

Keywords: annotations, immunity, optimization



33 Getting and giving information: What is this text about?

-  Nicolas Hernandez, Brigitte Grau
 October 2003 **Proceedings of the 21st annual international conference on Document Analysis and Recognition**
Publisher: ACM Press
 Full text available:  pdf(229.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most work in text retrieval aims at presenting the information held by several texts in order to help the user towards these texts and to allow a navigation between them. Besides, a lesser interest is dedicated to the study of principles for accessing content of single documents. As most information retrieval systems respond to an initial request made of words, a usual solution consists of presenting document titles and highlighting the request inside a passage or in a list of passages ...

Keywords: dynamic summarization, meta-descriptors and topical descriptors identification, text visualization

34 Demos: Visualizing and AspectJ-enabling eclipse plugins using bytecode instrumentation

-  Chris Laffra, Martin Lippert
 October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '03**
Publisher: ACM Press
 Full text available:  pdf(189.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Bytecode instrumentation can be used effectively to (a) generate visualizations and (b) to modify the behavior of Eclipse plugins. In this demonstration, we will show two independent techniques that have in common to obtain their results by modifying the binary representation of a given software system. In the first part, Chris Laffra will show experiments he performed on visualization of Eclipse plugins in the context of the Eclipse project. In the second part of the demo, Martin Lippert will show how to modify the behavior of Eclipse plugins using AspectJ ...


Keywords: AspectJ, aspect-oriented programming, cross-plugin pointcuts, eclipse, introspection plugins, reflection, visualization

35 Create user interfaces with Glade

E. Feldman

July 2001 **Linux Journal**, Volume 2001 Issue 87

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(20.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Discover the joys of creating GUI apps with Glade and Python--Chapman shows us how.

36 A family of tangent continuous cubic algebraic splines



Marco Paluszny, Richard R. Patterson

July 1993 **ACM Transactions on Graphics (TOG)**, Volume 12 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: cubic ovals, cubic splines, implicit curves, interpolation, piecewise algebraic curves

37 Industrial session: XML support in relational system: CXHist: an on-line classification-based string selectivity estimation

Lipyeow Lim, Min Wang, Jeffrey Scott Vitter

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB**

Publisher: VLDB Endowment

Full text available:  [pdf\(283.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Query optimization in IBM's System RX, the first truly relational-XML hybrid data management system, requires accurate selectivity estimation of path-value pairs, i.e., the number of nodes in the XML tree reachable by a given path with the given text value. Previous techniques have been inadequate, because they have not taken into account the tag-labeled paths (tree structure) of the XML data. For most real XML data, the number of distinct leaf nodes is orders of magnitude larger ...

38 Posters: High-level declarative user interfaces



Sofie Goderis, Theo D'Hondt

October 2005 **Companion to the 20th annual ACM SIGPLAN conference on Object-oriented systems, languages, and applications OOPSLA '05**

Publisher: ACM Press

Full text available:  [pdf\(54.86 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: declarative programming, separation of concerns, user interfaces

39 ATTICS (poster abstract): a software platform for online text classification




David D. Lewis, Daniel L. Stern, Amit Singhal

August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '99**

Publisher: ACM Press

Full text available: Additional Information:

 [pdf\(248.94 KB\)](#)

[full citation](#), [references](#), [citations](#), [index terms](#)

40 Poster abstracts: A tool for visualizing schemas for semistructured data



John Hosking, Nodira Khoussainova, Gillian Dobbie

September 2006 **Proceedings of the 2006 ACM symposium on Software visualization SoftVi**

Publisher: ACM Press

Full text available:  [pdf\(222.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

We describe a tool that permits modelling and visualization of schemas for semistructured data notation. The tool supports multiple overlapping views of an ORA-SS model providing schema graph checking.

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41 [Hacking Red Hat kickstart](#)

Brett Schwarz

April 2003 **Linux Journal**, Volume 2003 Issue 108

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(16.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Most of the savings from Linux desktops come from reduced administration costs--like rolling a cup of coffee that installs itself.

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